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Continuation Of:

Applicants:

Paul G. Ahlquist, et al.

Serial No.:

09/760,040

Filed:

January 12, 2001

For: Y

YEAST GENES THAT AFFECT VIRAL

REPLICATION

Group Art Unit:

1632

Examiner:

S. Chen

Commissioner For Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. 1.98, enclosed herewith is a list of documents which the Applicants in the above-identified patent application wish to bring to the attention of the Examiner for consideration in connection with the examination on the merits of this patent application. As this information duplicates information presented in related case Serial No. 09/760,040, Applicants have not provided copies of the documents.

Other Documents

P. Ahlquist, et al., "Bromovirus and Nodavirus RNA Replication," Sixth International Symposium on Positive Strand RNA Viruses, S3-06, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).

T. Baumstark and P. Ahlquist, "The Brome Mosaic Virus RNA3 Intergenic Replication Enhancer Folds to Mimic a tRNA TψC-stem Loop and is Modified *In Vivo*," Sixth International Symposium on Positive Strand RNA Viruses," P1-127, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).

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A.J. Caplan, et al., "Characterization of YDJ1: A Yeast Homologue of the Bacterial dnaJ Protein," J. Cell Biol. 114(4):609-621, 1991 (front page only).

A.J. Caplan, et al., "YDJ1p Facilitates Polypeptide Translocation across Different Intracellular Membranes by a Conserved Mechanism," Cell 71:1143-1155, 1992 (front page only).

J. Chen, et al., "Brome Mosaic Virus Replication

Protein la Recruits Viral RNA2 to Replication through a

5'-Proximal RNA2 Replication Signal," American Society

for Virology, 19th Annual Meeting, Colorado State

University, Fort Collins, Colorado, p. 129, July 8-12,

2000 (abstract).

J.A. den Boon, $\underline{\text{et}}$ $\underline{\text{al.}}$, "Identification of Sequences in Brome Mosaic Virus Replicase Protein 1A that Mediate

Association with Endoplasmic Reticulum Membranes," Sixth International Symposium on Positive Strand RNA Viruses," P1-128, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).

- J.A. den Boon, et al., "Sequences in the N-Terminal Capping Domain of Brome Mosaic Virus Replicase Protein 1A Mediate Association with Endoplasmic Reticulum Membranes," American Society for Virology, W30-8, 20th Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-25, 2001 (abstract).
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- H. Hermann, et al., "snRNP Sm Proteins Share Two Evolutionarily Conserved Sequence Motifs which are Involved in Sm Protein-Protein Interactions," EMBO J. 14(9):2076-2088, 1995 (front page only).
- J. Hu, et al., "Hepadnavirus Assembly and Reverse Transcription Require a Multi-Component Chaperone Complex

which is Incorporated into Nucleocapsids," $\underline{\text{EMBO}}$ J. 16(1):59-68, 1997.

- M. Ishikawa, et al., "In Vivo DNA Expression of functional Brome Mosaic Virus RNA Replicons in Saccharomyces cerevisiae," J. Virol. 71(10):7781-7790, 1997.
- M. Ishikawa, et al., "Yeast Mutations in Multiple Complementation Groups Inhibit Brome Mosaic Virus RNA Replication and Transcription and Perturb Regulated Expression of the Viral Polymerase-Like Gene," Proc. Natl. Acad. Sci. USA 94:7781-7790, 1997.
- M. Janda and P. Ahlquist, "RNA-Dependent Replication, Transcription, and Persistence of Brome Mosaic Virus RNA Replicons in *S. cerevisiae*," Cell 72:961-970, 1993.
- M. Janda and P. Ahlquist, "Brome Mosaic Virus RNA Replication Protein 1a Dramatically Increases *In Vivo* Stability but not Translation of Viral Genomic RNA3," Proc. Natl. Acad. Sci. USA 95:2227-2232, 1998.
- Y. Kimura, et al., "Role of the Protein Chaperone YDJ1 in Establishing Hsp90-Mediated Signal Transduction Pathways," Science 268:1362 (front page only).
- D.B. Kushner and P. Ahlquist, "Turnover, Host-mediated Repair and Replication of 3' tRNA-like Ends of Brome Mosaic Virus RNA *In Vivo*," Sixth International Symposium on Positive Strand RNA Viruses," P1-127, May

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W.-M. Lee, et al., "Altered Membrane Lipid Composition Inhibits Formation of Functional Brome Mosaic Virus RNA Replication Complexes," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 129, July 8-12, 2000 (abstract).

W.-M. Lee, et al., "Mutation of Host $\Delta 9$ Fatty Acid Desaturase Inhibits Brome Mosaic Virus RNA Replication between Template Recognition and RNA Synthesis," J. Virol. 75(5):2097-2106, 2001.

B.D. Lindenbach, et al., "A Long Distance

Interaction in Flock House Virus RNA1 Controls Subgenomic

RNA3 Synthesis," Sixth International Symposium on

Positive Strand RNA Viruses," P1-129, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).

B.D. Lindenbach, et al., "Flock House Virus Subgenomic RNA3 Synthesis is Controlled by a Long Distance Base Pairing Interaction in RNA1," American Society for Virology, W3-2, 20th Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-25, 2001 (abstract).

A.E. McBride, et al., "Human Protein Sam68

Relocalization and Interaction with Poliovirus RNA

Polymerase in Infected Cells," Proc. Natl. Acad. Sci. USA
93:2296-2301, 1996.

D.J. Miller, et al., "Flock House Virus RNA

Replicates on the Outer Mitochondrial Membrane of

Drosophila Cells," American Society for Virology, W41-4,

20th Annual Meeting, University of Wisconsin-Madison,

Madison, Wisconsin, July 21-25, 2001 (abstract).

E.J. Neer, et al., "The Ancient Regulatory-Protein Family of WD-Repeat Proteins," Nature 371:297-300, 1994.

A. Noueiry and P. Ahlquist, "A Mutant Allele of DEDI, A Yeast General Translation Initiation Factor, Selectively Inhibits Translation of Bromovirus Polymerase Message," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 88, July 8-12, 2000 (abstract).

A. Noueiry, $\underline{\text{et}}$ $\underline{\text{al.}}$, "A Mutant Allele of Essential, General Translation Initiation Factor *DED1* Selectively

Inhibits Translation of a Viral mRNA," <u>PNAS</u> 97(24):12985-12990, 2000.

A. Noueiry, et al., "BMV RNA Translation Requires Host Genes Essential for Deadenylated mRNA Decapping," Sixth International Symposium on Positive Strand RNA Viruses," S3-06, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).

A. Noueiry, et al., "BMV RNA Translation Require

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American Society for Virology, W17-3, 20th Annual Meeting,

University of Wisconsin-Madison, Madison, Wisconsin, July

21-25, 2001 (abstract).

R.E. O'Neill, et al., "Nuclear Import of Influenza Virus RNA can be Mediated by Viral Nucleoprotein and Transport Factors Required for Protein Import," J. Biol. Chem. 270(39):22701-22704, 1995.

R.E. O'Neill and P. Palese, "NPI-1, the Human Homolog of SRP-1, Interacts with Influenza Virus Nucleoprotein," Virology 206:116-125, 1995.

B.D. Price, et al., "Induction of RNA Replicons

Based on Flock House Virus RNA2 that Express Replicationdependent Selectable Markers in *S. cerevisiae*," American

Society for Virology, 19th Annual Meeting, Colorado State

University, Fort Collins, Colorado, p. 129, July 8-12,

2000 (abstract).

M.A. Restrepo-Hartwig and P. Ahlquist, "Brome Mosaic Virus Helicase- and Polymerase-Like Proteins Colocalize

on the Endoplasmic Reticulum at Sites of Viral RNA Synthesis, "J. Virol. 70(12):a-j, 1996.

V.E. Velculescu, et al., "Characterization of the Yeast Transcriptome," Cell 88:243-251, 1997 (front page only).

No fees are believed necessary to enter this Statement. However, if any fees are necessary please charge Deposit Account 17-0055.

> Respectfully submitted, Paul G. Ahlquist, et al.

July 14, 2003

Reg. No. 35,433 Quarles & Brady LLP

4M East Wisconsin Avenue Milwaukee, WI 53202-4497 (414) 277-5709

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INFORMATION DISCLOSURE	Filing Date	July 14, 2003
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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		J.A. den Boon, et al., "Sequences in the N-Terminal Capping Domain of Brome Mosaic Virus Replicase Protein 1A Mediate Association with Endoplasmic Reticulum Membranes," American Society for Virology, W30-8, 20th Annual Meeting, University of Wisconsin-Madison, Madison,	
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		J. Diez, et al., "Identification and Characterization of a Host Protein Factor Involved in Template Selection for Viral RNA Replication," PNAS 97(8):3913-3918, 2000.	
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J. Hu, et al., Hepadnavirus Assembly and Reverse Transcription Require a Multi-Component Chaperone Complex which is Incorporated into Nucleocapsids," EMBO J. 16(1):59-68, 1997.	
M. Ishikawa, et al., "In Vivo DNA Expression of Functional Brome Mosaic Virus RNA Replicons in Saccharomyces cerevisiae," J. Virol. 71(10):7781-7790, 1997.	
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M. Janda and P. Ahlquist, "Brome Mosaic Virus RNA Replication Protein 1a Dramatically Increases In Vivo Stability but not Translation of Viral Genomic RNA3," Proc. Natl. Acad. Sci. USA 95:2227-2232, 1998.	
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WM. Lee, et al., "Mutation of Host delta9 Fatty Acid Desaturase Inhibits Brome Mosaic Virus RNA Replication between Template Recognition and RNA Synthesis," J. Virol. 75(5):2097-2106, 2001.	
RI	NA Replication between Template Recognition and RNA Synthesis," J. Virol. 75(5):2097-2106,

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Cite No.1 Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropritem (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume publisher, city and/or country where published. B.D. Lindenbach, et al., "A Long Distance Interaction in Flock House Virus Subgenomic RNA3 Synthesis," Sixth International Symposium on Positive P1-129, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract). B.D. Lindenbach, et al., "Flock House Virus Subgenomic RNA3 Synthesis Distance Base Pairing Interaction in RNA1," American Society for Virology Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-2: A.E. McBride, et al., "Human Protein Sam68 Relocalization and Interaction Polymerase in Infected Cells," Proc. Natl. Acad. Sci. USA 93:2296-2301, 1 D.J. Miller, et al., "Flock House Virus RNA Replicates on the Outer Mitoche Drosophila Cells," American Society for Virology, W41-4, 20th Annual Meet Wisconsin-Madison, Madison, Wisconsin, July 21-25, 2001 (abstract). E.J. Neer, et al., "The Ancient Regulatory-Protein Family of WD-Repeat Programment of Protein P	RNA1 Controls Strand RNA Viruses," is Controlled by a Long y, W3-2, 20th Annual 5, 2001 (abstract). with Poliovirus RNA 996. condrial Membrane of thing, University of roteins," Nature	т2
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		B.D. Price, et al., "Induction of RNA Repticons Based on Flock House Virus RNA2 that Express Replication-dependent Selectable Markers in S. cerevisiae," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 129, July 8-12, 2000	
		M.A. Restrepo-Hartwig and P. Ahlquist, "Brome Mosaic Virus Helicase- and Polymerase-Like Proteins Colcalize on the Endoplasmic Reticulum at Sites of Viral RNA Synthesis," J. Virol. 70(12):a-j, 1996.	
		V.E. Velculescu, et al., "Characterization of the Yeast Transcriptome," Cell 88:243-251, 1997 (front page only).	
		1	

Examiner	Date	
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.